Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2018-03-28-18** **Date: 31-03-18**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, Bangalore
Address	:	Vidyaranyapura Sub Division, Bangalore
Project Name	:	Package No. 04 (Package consists of 28 works)
Agency	:	M/s. Ram and company, Sri. C R GIRISH, No. 12, Patel Pillegowda layout, Ramachandrapura, Bangalore- 560013
Customer's Reference	:	BBMP/EE/BTP/WO/129/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	28-03-18
Sample ID No	:	2018-03-28-18 /01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	29-03-18
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.05	–
2	Finess by Air permeablity method (m^2/kg,Min)	298.6	225m^2/kg, Min
3	Density (gm/cc)	3.13	–
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	135 minutes	Not less than 30 minutes
6	Final Setting time	255 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

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CIVIL Pro Sig Date BANGALORE

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

****End of Report****

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	CP-2018-03-28-18 **Date: 26-04-18**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, Bangalore
Address	:	Vidyaranyapura Sub Division, Bangalore
Project Name	:	Package No. 04 (Package consists of 28 works)
Agency	:	M/s. Ram and company, Sri. C R GIRISH, No. 12, Patel Pillegowda layout, Ramachandrapura, Bangalore- 560013
Customer's Reference	:	BBMP/EE/BTP/WO/129/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	28-03-18
Sample ID No	:	2018-03-28-18 /01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	29-03-18
Environmental Conditions during test	:	Temperature: 26˚C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results (N/mm^2)	Requirement as per IS 12269: 2013
1	3 Days	29.0N/mm^2	Not less than 27 N/mm^2
2	7 Days	38.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	55.5N/mm^2	Not less than 53 N/mm^2

Note:
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Assistant Executive Engineer
Vidyaranyapura Sub Division
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****End of Report****

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-03-28-18** **Date: 31-03-18**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, Bangalore
Address	:	Vidyaranyapura Sub Division, Bangalore
Project Name	:	Package No. 04 (Package consists of 28 works)
Agency	:	M/s. Ram and company, Sri. C R GIRISH, No. 12, Patel Pillegowda layout, Ramachandrapura, Bangalore- 560013
Customer Reference	:	BBMP/EE/BTP/WO/129/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	28-03-18
Sample ID No	:	2018-03-28-18/02(a)-01
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	28-03-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	86	86	1.7	98.3	90-100
3	10 mm	3586	3672	73.4	26.6	25-55
4	4.75 mm	1306	4978	99.6	0.4	0-10
5	Pan	22	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2018-03-28-18** **Date: 31-03-18**

Sample ID No : 2018-03-28-18/02(a)-01

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	13.1	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	10.5	
3	Specific Gravity	2.6	–
4	Bulk Density(Loose) (Kg/l)	1.53	–
5	Bulk Density(Compacted) (Kg/l)	1.57	–
6	Water Absorption(%)	0.25	–
7	Aggregate crushing Value(%)	23.6	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	20.4	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

Note:
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R KARTHIK RECHAN
Authorized Signature
Quality Manager

End of Report

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-03-28-18** **Date: 31-03-18**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, Bangalore
Address	:	Vidyaranyapura Sub Division, Bangalore
Project Name	:	Package No. 04 (Package consists of 28 works)
Agency	:	M/s. Ram and company, Sri. C R GIRISH, No. 12, Patel Pillegowda layout, Ramachandrapura, Bangalore- 560013
Customer Reference	:	BBMP/EE/BTP/WO/129/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	28-03-18
Sample ID No	:	2018-03-28-18/02(a)-02
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	28-03-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	88	88	1.8	98.2	90-100
3	10 mm	3570	3658	73.2	26.8	25-55
4	4.75 mm	1326	4984	99.7	0.3	0-10
5	Pan	16	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2018-03-28-18** **Date: 31-03-18**

Sample ID No : 2018-03-28-18/02(a)-02

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	8.65	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.2	
3	Specific Gravity	2.64	–
4	Bulk Density(Loose) (Kg/l)	1.55	–
5	Bulk Density(Compacted) (Kg/l)	1.52	–
6	Water Absorption(%)	0.2	–
7	Aggregate crushing Value(%)	24.5	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	22.4	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

Note:
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R KARTHIK RECHAN
Authorized Signature
Quality Manager

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

End of Report

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-03-28-18** **Date: 31-03-18**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, Bangalore
Address	:	Vidyaranyapura Sub Division, Bangalore
Project Name	:	Package No. 04 (Package consists of 28 works)
Agency	:	M/s. Ram and company, Sri. C R GIRISH, No. 12, Patel Pillegowda layout, Ramachandrapura, Bangalore- 560013
Customer Reference	:	BBMP/EE/BTP/WO/129/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	28-03-18
Sample ID No	:	2018-03-28-18/02(a)-03
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	28-03-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	86	86	1.7	98.3	90-100
3	10 mm	3586	3672	73.4	26.6	25-55
4	4.75 mm	1306	4978	99.6	0.4	0-10
5	Pan	22	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2018-03-28-18** **Date: 31-03-18**

Sample ID No : 2018-03-28-18/02(a)-03

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	13.1	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	10.5	
3	Specific Gravity	2.6	–
4	Bulk Density(Loose) (Kg/l)	1.53	–
5	Bulk Density(Compacted) (Kg/l)	1.57	–
6	Water Absorption(%)	0.25	–
7	Aggregate crushing Value(%)	23.6	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	20.4	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

Note:
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TEST REPORT OF FINE AGGREGATE

Lab ID	:	**CP-2018-03-28-18** **Date: 31-03-18**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, Bangalore
Address	:	Vidyaranyapura Sub Division, Bangalore
Project Name	:	Package No. 04 (Package consists of 28 works)
Agency	:	M/s. Ram and company, Sri. C R GIRISH, No. 12, Patel Pillegowda layout, Ramachandrapura, Bangalore- 560013
Customer's Reference	:	BBMP/EE/BTP/WO/129/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	28-03-18
Sample ID No	:	2018-03-28-18/03-01
Sample Type	:	Fine Aggrgate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	28-03-18
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0	100	100	100	100	100
2	4.75 mm	57	57	5.7	94.3	90-100	90-100	90-100	95-100
3	2.36 mm	110	167	16.7	83.3	60-95	75-100	85-100	95-100
4	1.18 mm	204	371	37.1	62.9	30-70	55-90	75-100	90-100
5	600 micron	247	618	61.8	38.2	15-34	35-59	60-79	80-100
6	300 micron	291	909	90.9	9.1	5-20	8-30	12-40	15-50
7	150 micron	52	961	96.1	3.9	0-10	0-10	0-10	0-15
8	Pan	39	1000	100	0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

Assistant Executive Engineer
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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2018-03-28-18** **Date: 31-03-18**

Sample ID No : 2018-03-28-18/03-01

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	2.18	–
2	Specific Gravity	2.6	–
3	Material finer than 75 micron(%)	4.1	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

Note:
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Authorized Signatory
Quality Manager

****End of Report****

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

TEST REPORT OF FINE AGGREGATE

Lab ID	:	**CP-2018-03-28-18** **Date: 31-03-18**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, Bangalore
Address	:	Vidyaranyapura Sub Division, Bangalore
Project Name	:	Package No. 04 (Package consists of 28 works)
Agency	:	M/s. Ram and company, Sri. C R GIRISH, No. 12, Patel Pillegowda layout, Ramachandrapura, Bangalore- 560013
Customer's Reference	:	BBMP/EE/BTP/WO/129/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	28-03-18
Sample ID No	:	2018-03-28-18/03-02
Sample Type	:	Fine Aggrgate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	28-03-18
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0	100	100	100	100	100
2	4.75 mm	89	89	8.9	91.1	90-100	90-100	90-100	95-100
3	2.36 mm	145	234	23.4	76.6	60-95	75-100	85-100	95-100
4	1.18 mm	147	381	38.1	61.9	30-70	55-90	75-100	90-100
5	600 micron	243	624	62.4	37.6	15-34	35-59	60-79	80-100
6	300 micron	255	879	87.9	12.1	5-20	8-30	12-40	15-50
7	150 micron	75	954	95.4	4.6	0-10	0-10	0-10	0-15
8	Pan	46	1000	100	0	---	---	---	---
Result :The tested Sample Conforms to Grading Zone II									

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2018-03-28-18** **Date: 31-03-18**

Sample ID No : 2018-03-28-18/03-02

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	2.19	–
2	Specific Gravity	2.5	–
3	Material finer than 75 micron(%)	4.2	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

Note:
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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

TEST REPORT OF FINE AGGREGATE

Lab ID	:	**CP-2018-03-28-18** **Date: 31-03-18**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, Bangalore
Address	:	Vidyaranyapura Sub Division, Bangalore
Project Name	:	Package No. 04 (Package consists of 28 works)
Agency	:	M/s. Ram and company, Sri. C R GIRISH, No. 12, Patel Pillegowda layout, Ramachandrapura, Bangalore- 560013
Customer's Reference	:	BBMP/EE/BTP/WO/129/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	28-03-18
Sample ID No	:	2018-03-28-18/03-03
Sample Type	:	Fine Aggrgate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	28-03-18
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0	100	100	100	100	100
2	4.75 mm	79	79	7.9	92.1	90-100	90-100	90-100	95-100
3	2.36 mm	238	317	31.7	68.3	60-95	75-100	85-100	95-100
4	1.18 mm	342	659	65.9	34.1	30-70	55-90	75-100	90-100
5	600 micron	159	818	81.8	18.2	15-34	35-59	60-79	80-100
6	300 micron	101	919	91.9	8.1	5-20	8-30	12-40	15-50
7	150 micron	49	968	96.8	3.2	0-10	0-10	0-10	0-15
8	Pan	32	1000	100	0	---	---	---	---
Result :The tested Sample Conforms to Grading Zone I									

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2018-03-28-18** **Date: 31-03-18**

Sample ID No : 2018-03-28-18/03-03

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	2.55	–
2	Specific Gravity	2.56	–
3	Material finer than 75 micron(%)	3.92	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

Note:
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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL Pro Sig Date BANGALORE

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2018-05-02-19** **Date: 05-05-18**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, Bangalore
Address	:	Vidyaranyapura Sub Division, Bangalore
Project Name	:	Package No. 04 (Package consists of 28 works)
Agency	:	M/s. Ram and company, Sri. C R GIRISH, No. 12, Patel Pillegowda layout, Ramachandrapura, Bangalore- 560013
Customer's Reference	:	BBMP/EE/BTP/WO/129/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	02-05-18
Sample ID No	:	2018-05-02-19 /01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	03-05-18
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.05	–
2	Finess by Air permeablity method (m^2/kg,Min)	298.6	225m^2/kg, Min
3	Density (gm/cc)	3.13	–
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	135 minutes	Not less than 30 minutes
6	Final Setting time	255 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

Note:

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL Pro Sig..... Date..... BANGALORE

****End of Report****

Assistant Executive Engineer
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Bangalore - 97

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Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2018-05-02-19** **Date: 31-05-18**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, Bangalore
Address	:	Vidyaranyapura Sub Division, Bangalore
Project Name	:	Package No. 04 (Package consists of 28 works)
Agency	:	M/s. Ram and company, Sri. C R GIRISH, No. 12, Patel Pillegowda layout, Ramachandrapura, Bangalore- 560013
Customer's Reference	:	BBMP/EE/BTP/WO/129/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	02-05-18
Sample ID No	:	2018-05-02-19 /01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	03-05-18
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results (N/mm^2)	Requirement as per IS 12269: 2013
1	3 Days	29.0N/mm^2	Not less than 27 N/mm^2
2	7 Days	38.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	55.5N/mm^2	Not less than 53 N/mm^2

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****End of Report****

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-05-02-19** **Date: 05-05-18**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, Bangalore
Address	:	Vidyaranyapura Sub Division, Bangalore
Project Name	:	Package No. 04 (Package consists of 28 works)
Agency	:	M/s. Ram and company, Sri. C R GIRISH, No. 12, Patel Pillegowda layout, Ramachandrapura, Bangalore- 560013
Customer Reference	:	BBMP/EE/BTP/WO/129/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	02-05-18
Sample ID No	:	2018-05-02-19/02(a)-01
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	02-05-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	86	86	1.7	98.3	90-100
3	10 mm	3586	3672	73.4	26.6	25-55
4	4.75 mm	1306	4978	99.6	0.4	0-10
5	Pan	22	5000	100	0	_

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Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2018-05-02-19** **Date: 05-05-18**

Sample ID No : 2018-05-02-19/02(a)-01

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	13.1	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	10.5	
3	Specific Gravity	2.6	_
4	Bulk Density(Loose) (Kg/l)	1.53	_
5	Bulk Density(Compacted) (Kg/l)	1.57	_
6	Water Absorption(%)	0.25	_
7	Aggregate crushing Value(%)	23.6	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	20.4	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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CIVIL Pro Sig..... Date..... BANGALORE

R KARTHIK RECHAN
Authorized Signature
Quality Manager

End of Report

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-05-02-19** **Date: 05-05-18**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, Bangalore
Address	:	Vidyaranyapura Sub Division, Bangalore
Project Name	:	Package No. 04 (Package consists of 28 works)
Agency	:	M/s. Ram and company, Sri. C R GIRISH, No. 12, Patel Pillegowda layout, Ramachandrapura, Bangalore- 560013
Customer Reference	:	BBMP/EE/BTP/WO/129/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	02-05-18
Sample ID No	:	2018-05-02-19/02(a)-02
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	02-05-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	72	72	1.4	98.6	90-100
3	10 mm	3592	3664	73.3	26.7	25-55
4	4.75 mm	1302	4966	99.3	0.7	0-10
5	Pan	34	5000	100	0	_

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Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore-97

TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2018-05-02-19** **Date:** **05-05-18**

Sample ID No : 2018-05-02-19/02(a)-02

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	11.1	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	10.9	
3	Specific Gravity	2.68	–
4	Bulk Density(Loose) (Kg/l)	1.51	–
5	Bulk Density(Compacted) (Kg/l)	1.53	–
6	Water Absorption(%)	0.22	–
7	Aggregate crushing Value(%)	22.1	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	19.2	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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R KARTHIK RECHAN
Authorized Signature
Quality Manager

End of Report

CIVIL PRO BANGALORE Sig date

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-05-02-19** **Date: 05-05-18**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, Bangalore
Address	:	Vidyaranyapura Sub Division, Bangalore
Project Name	:	Package No. 04 (Package consists of 28 works)
Agency	:	M/s. Ram and company, Sri. C R GIRISH, No. 12, Patel Pillegowda layout, Ramachandrapura, Bangalore- 560013
Customer Reference	:	BBMP/EE/BTP/WO/129/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	02-05-18
Sample ID No	:	2018-05-02-19/02(a)-03
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	02-05-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	48	48	1.0	99.0	90-100
3	10 mm	3354	3402	68.0	32.0	25-55
4	4.75 mm	1552	4954	99.1	0.9	0-10
5	Pan	46	5000	100	0	–

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Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore-97

TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2018-05-02-19** **Date: 05-05-18**

Sample ID No : 2018-05-02-19/02(a)-03

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	10.5	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.9	
3	Specific Gravity	2.61	–
4	Bulk Density(Loose) (Kg/l)	1.51	–
5	Bulk Density(Compacted) (Kg/l)	1.54	–
6	Water Absorption(%)	0.2	–
7	Aggregate crushing Value(%)	22.7	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	19.8	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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R KARTHIK RECHAN
Authorized Signature
Quality Manager

End of Report

Assistant Executive Engineer
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BBMP, Bangalore - 97

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TEST REPORT OF FINE AGGREGATE

Lab ID	:	**CP-2018-05-02-19** **Date: 05-05-18**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, Bangalore
Address	:	Vidyaranyapura Sub Division, Bangalore
Project Name	:	Package No. 04 (Package consists of 28 works)
Agency	:	M/s. Ram and company, Sri. C R GIRISH, No. 12, Patel Pillegowda layout, Ramachandrapura, Bangalore- 560013
Customer's Reference	:	BBMP/EE/BTP/WO/129/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	02-05-18
Sample ID No	:	2018-05-02-19/03-01
Sample Type	:	Fine Aggrgate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	02-05-18
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0	100	100	100	100	100
2	4.75 mm	57	57	5.7	94.3	90-100	90-100	90-100	95-100
3	2.36 mm	110	167	16.7	83.3	60-95	75-100	85-100	95-100
4	1.18 mm	204	371	37.1	62.9	30-70	55-90	75-100	90-100
5	600 micron	247	618	61.8	38.2	15-34	35-59	60-79	80-100
6	300 micron	291	909	90.9	9.1	5-20	8-30	12-40	15-50
7	150 micron	52	961	96.1	3.9	0-10	0-10	0-10	0-15
8	Pan	39	1000	100	0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

Assistant Executive Engineer
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BBMP, Bangalore - 97

CIVIL PRO Sig Date BANGALORE

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2018-05-02-19** **Date: 05-05-18**

Sample ID No : 2018-05-02-19/03-01

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	2.18	_
2	Specific Gravity	2.6	_
3	Material finer than 75 micron(%)	4.1	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

TEST REPORT OF FINE AGGREGATE

Lab ID	:	**CP-2017-02-14-05** **Date: 05-05-18**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, Bangalore
Address	:	Vidyaranyapura Sub Division, Bangalore
Project Name	:	Package No. 04 (Package consists of 28 works)
Agency	:	M/s. Ram and company, Sri. C R GIRISH, No. 12, Patel Pillegowda layout, Ramachandrapura, Bangalore- 560013
Customer's Reference	:	BBMP/EE/BTP/WO/129/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	02-05-18
Sample ID No	:	2018-05-02-19/03-02
Sample Type	:	Fine Aggrgate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	02-05-18
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0	100	100	100	100	100
2	4.75 mm	17	17	1.7	98.3	90-100	90-100	90-100	95-100
3	2.36 mm	51	68	6.8	93.2	60-95	75-100	85-100	95-100
4	1.18 mm	279	347	34.7	65.3	30-70	55-90	75-100	90-100
5	600 micron	352	699	69.9	30.1	15-34	35-59	60-79	80-100
6	300 micron	132	831	83.1	16.9	5-20	8-30	12-40	15-50
7	150 micron	89	920	92	8.0	0-10	0-10	0-10	0-15
8	Pan	80	1000	100	0	---	---	---	---
Result :The tested Sample Conforms to Grading Zone I									

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2017-02-14-05** **Date: 05-05-18**

Sample ID No : 2018-05-02-19/03-02

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.9	–
2	Specific Gravity	2.62	–
3	Material finer than 75 micron(%)	5.1	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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Quality Manager

CIVIL PRO BANGALORE Sig Date

****End of Report****

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

TEST REPORT OF FINE AGGREGATE

Lab ID	:	**CP-2017-02-15-01** **Date: 05-05-18**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, Bangalore
Address	:	Vidyaranyapura Sub Division, Bangalore
Project Name	:	Package No. 04 (Package consists of 28 works)
Agency	:	M/s. Ram and company, Sri. C R GIRISH, No. 12, Patel Pillegowda layout, Ramachandrapura, Bangalore- 560013
Customer's Reference	:	BBMP/EE/BTP/WO/129/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	02-05-18
Sample ID No	:	2018-05-02-19/03-03
Sample Type	:	Fine Aggrgate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	02-05-18
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0	100	100	100	100	100
2	4.75 mm	15	15	1.5	98.5	90-100	90-100	90-100	95-100
3	2.36 mm	39	54	5.4	94.6	60-95	75-100	85-100	95-100
4	1.18 mm	78	132	13.2	86.8	30-70	55-90	75-100	90-100
5	600 micron	315	447	44.7	55.3	15-34	35-59	60-79	80-100
6	300 micron	291	738	73.8	26.2	5-20	8-30	12-40	15-50
7	150 micron	183	921	92.1	7.9	0-10	0-10	0-10	0-15
8	Pan	79	1000	100	0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

Assistant Executive Engineer
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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL |
GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES |

TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2017-02-15-01** **Date: 05-05-18**

Sample ID No : 2018-05-02-19/03-03

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	2.12	–
2	Specific Gravity	2.62	–
3	Material finer than 75 micron(%)	3.77	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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R KARTHIK RECHAN
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Quality Manager

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Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

****End of Report****